



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS General Certificate of Education Advanced Subsidiary Level and Advanced Level

Stage Com

CANDIDATE NAME CENTRE NUMBER



COMPUTING

9691/13

Paper 1

May/June 2011

1 hour 30 minutes

Candidates answer on the Question Paper.

No additional materials are required.

No calculators allowed.

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen.

You may use a soft pencil for any diagrams, graphs or rough working.

Do not use staples, paper clips, highlighters, glue or correction fluid.

DO NOT WRITE IN ANY BARCODES.

Answer **all** questions.

No marks will be awarded for using brand names for software packages or hardware.

At the end of the examination, fasten all your work securely together.

The number of marks is given in brackets [] at the end of each question or part question.



	23
	2
Dof	Fine the terms
Dei	fine the terms:
(i)	input device
	input device
(ii)	storage device
	[2]
	na has a number of places where customers can buy their tickets. input by the cashiers at the terminals and information is produced.
Sta	te two input devices which would be used at the terminals, justifying their use.
Dev	vice 1
Jus	tification
ouc	
Dev	vice 2
Jus	tification
	[4]
_	
	te two types of output needed at the point-of-sale terminals. For each type of output plain why it is needed.
Out	tput 1

Out	tput 2
Out	tput 2
	(ii) (iii) cinemata is Sta Dev Jus Sta exp Out

(d) The management of the cinema use a number of different types of software. State what each of the following types of software would be used for. Give a feature of each which makes it suitable for your use.

	May May 1
	3
Sta	a management of the cinema use a number of different types of software. It what each of the following types of software would be used for. It is a feature of each which makes it suitable for your use. Desktop publisher (DTP) Use
(i)	Desktop publisher (DTP)
	Use
	Feature
	[2]
(ii)	Word processor
	Use
	Feature
	[2]
(iii)	Spreadsheet
	Use
	Feature
	[2]

The state of the s
4
A systems analyst is employed to produce a new stock control system for a companion manager of the company is not satisfied with the present system.
A systems analyst is employed to produce a new stock control system for a company manager of the company is not satisfied with the present system. (a) Explain the importance of determining the information requirements of the new system in consultation with the manager of the company.
[4]
(b) (i) Explain why it is important to the analyst to have the new system tested.
[2]
(ii) Explain why it is important to the manager to have the new system tested.
[2]

(a)	Explain how a character is represented in a computer.
	[2]
(b)	Explain how integers are represented in a computer.
	[3]
(c)	Explain how a Boolean value is stored in a computer.
	[2]

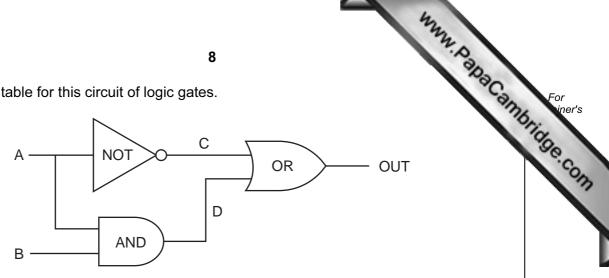
For iner's 4 A library membership system identifies members by their unique 6-digit ID number. When a member takes a book out of the library their ID number and the details of the are stored on a serial file.

(a)	Sta	te how the details of a new loan are added to the serial file.	
			 [1]
(b)	The	e member file is held sequentially according to the ID numbers.	
	(i)	Explain how indexes are used to access the member file.	
			[3]
			[J]
	(ii)	When a new member joins the library their details are added to the member file. Explain how a new ID number is added to the index in the correct position.	
			[2]

.....

[5]

Complete the table for this circuit of logic gates. 6



А	В	С	D	OUT
0	0			
0	1			
1	0			
1	1			

[6]

7 A spelling game is being produced which is aimed at young children who are learning to read and write.

Discuss how the use of colour, layout and content will influence the design of the human computer interface (HCI).

Colour	 	
Content	 	
		[6]

www.PapaCambridge.com (a) State two differences between a local area network (LAN) and a wide area (WAN). 1 ______ 2 [2] (b) (i) State what is meant by data being transmitted serially using a simplex mode of data transmission. (ii) State what is meant by data being transmitted in parallel using a half duplex mode of data transmission. (c) The following bytes were sent during a data transmission. 01101100 10101010 10110001 Explain how a check sum can be used to check whether or not the bytes have been corrupted during transmission.

	www.	
	10	
(a)	Explain the difference between a multi-user operating system and a computer hoperating system.	For iner's
		S. COM
	[2]	
(b)	Describe how a batch processing system works.	
	[4]	

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